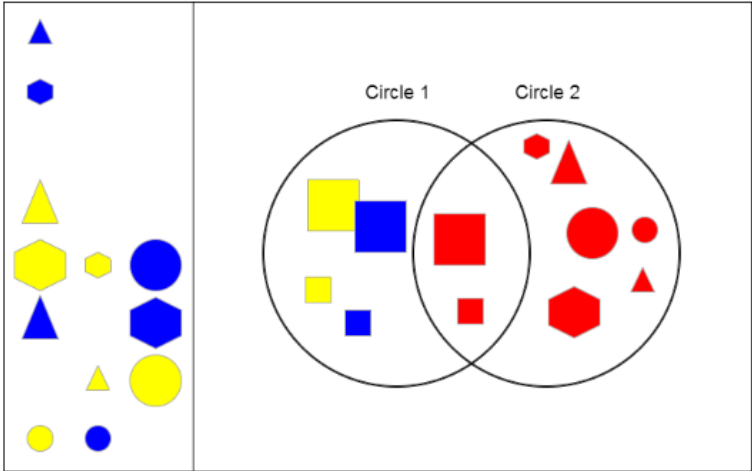


Title of Activity: Venn Diagram Shape Sorter

Author(s):	Adele Hedrick, Lauren Quinto, Sylvia Liu, Caroline Ferguson
Name of WBLT:	Venn Diagram Shape Sorter
Link to WBLT:	http://www.shodor.org/interactivate/activities/ShapeSorter/
Tiny URL Link:	http://tinyurl.com/vennshapessort
Main Strand:	Math 7 Logic and Set Theory
Concepts(s) Addressed:	How to use a Venn Diagram to sort shapes
Learning Goal(s)	<p>By the end of this activity, students should be able to</p> <ol style="list-style-type: none">1. choose the appropriate type of Venn diagram depending on whether there is an overlap or not2. use the Venn diagram to sort shapes by colour, shape and size
Expected Time	<p>60 minute class:</p> <ul style="list-style-type: none">● Introduction to a Venn Diagram using the tool: 10 minutes● Using the WBLT in Pairs: 20 minutes● Create a Venn Diagram on Paper Individually in Class: 20 minutes● 10 minutes left over: Going to the lab, back to class from the lab, making groups, etc.
Introduction Activity	<ul style="list-style-type: none">● Today we are going to talk about Venn diagrams. Let's take a look at all the shapes on this page (referring to tool). Let's say our rule is "Red". This means that every shape that is red should be placed within this circle. Shapes that are not red should be left outside the circle.● Now what do we do if we have two circles each with its own rule? Let's say the first rule is triangle and the second rule is square. Who can show me where all the shapes belong?... that's right, all the triangles go in the first circle, and all the squares go in the second circle. The rest of the shapes stay out of the circles.● Alright, so let's look at a different situation. Two circles that overlap. Can anybody tell me why there would be overlapping circles? What would go in the overlapped region? Let's look at an example. If our first rule is squares and our second rule is red, which shapes belong in the overlapped section? That's right!!! The red squares belong in the overlapped region. Can someone now move all the other shapes into the appropriate region? Congratulations! Now here is a worksheet for you to

	<p>complete this next assignment. Have fun..</p> 
<p>Guiding Questions</p>	<ul style="list-style-type: none"> • Now what do we do if we have two circles each with its own rule? • Who can show me where all the shapes belong? • Why do some shapes bounce out of the Venn Diagram? • Can anybody tell me why there would be overlapping circles? • What would go in the overlapped region? • Think about what shapes would go into the overlap between the two circles? • Can you give me an example of a Venn Diagram that would have an overlap from three circles?
<p>Consolidation</p>	<ul style="list-style-type: none"> • What is Venn Diagram? • What is overlapped mean? • When do we use single circle, two non-overlapping circles, or two overlapping circles? • Create Venn Diagram individually with two circles on paper. Students have to come up with two rules for each circle. They will be provided with blank paper and can use their own colours. This will be collected and will assessed to ensure the students have learned the concept.

Description of activity: This activity uses a web learning tool that allows a user to sort shapes in 3 different types of Venn diagrams